

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

9

ATTY. DOCKET NO.
0652.2180001/JUK/Y-WAPPLICATION NO.
09/987,457APPLICANT
Manosroi *et al.*FILING DATE
November 14, 2001GROUP
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
W	AA1	6,083,715	07/04/2000	Georgiou <i>et al.</i>			06/09/1997
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
W	AL1	EP 0 357 391 A2	03/07/1990	Europe			Yes No
	AM1	EP 0 467 676 A2	01/22/1992	Europe			Yes No
	AN1	EP 1 048 732 A1	11/02/2000	Europe			Yes No
	AO1	EP 0 302 456 A1	02/08/1989	Europe			Yes No
W	AP1	WO 97/38123 A1	10/16/1997	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

W	AR	1	Allen, S. <i>et al.</i> , "Intracellular Folding of Tissue-type Plasminogen Activator. Effects of Disulfide Bond Formation on N-linked Glycosylation and Secretion," <i>J. Biol. Chem.</i> 270:4797-4804, The American Society for Biochemistry and Molecular Biology, Inc. (1995).
W	AS	1	Ames, G.F.-L. <i>et al.</i> , "Simple, Rapid, and Quantitative Release of Periplasmic Proteins by Chloroform," <i>J. Bacteriol.</i> 160:1181-1183, American Society for Microbiology (1984).
N	AT	1	Barbas, C.F. III <i>et al.</i> , "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88:7978-7982, The National Academy of Sciences of the U.S.A. (1991).

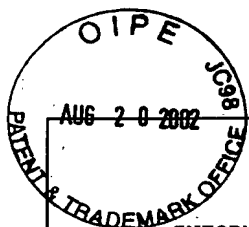
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Kristina Koblens

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U	AL2	WO 98/54199 A1	12/03/1998	WIPO			Yes No
U	AM2	EP 1 077 263 A1	02/21/2001	Europe			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

U	AR	2	Barbas, C.F. III and J. Wagner, "Synthetic Human Antibodies: Selecting and Evolving Functional Proteins," <i>Methods</i> 8:94-103, Academic Press (1995).
K	AS	2	Bennett, W.F. et al., "High Resolution Analysis of Functional Determinants on Human Tissue-type Plasminogen Activator," <i>J. Biol. Chem.</i> 266:5191-5201, The American Society for Biochemistry and Molecular Biology, Inc. (1991).
L	AT	2	Betton, J.-M. et al., "Degradation versus Aggregation of Misfolded Maltose-binding Protein in the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 273:8897-8902, The American Society for Biochemistry and Molecular Biology, Inc. (1998).

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Kristen Katchew

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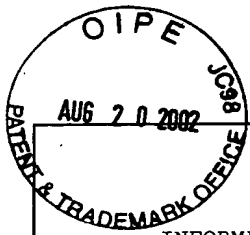
R	AR	3	Camilo, S.M. et al., "Fibrinogenolysis and Fibrinolysis with Tissue Plasminogen Activator, Urokinase, Streptokinase-Activated Human Globulin and Plasmin," <i>Proc. Soc. Exp. Biol. Med.</i> 138:277-280, Academic Press (1971).
K	AS	3	Cartwright, T., "Production of tPA from Animal Cell Cultures," In <i>Animal Cell Biotechnology</i> , Vol 5, R.E. Spier and J.B. Griffiths (eds.), Academic Press, N.Y. p. 217-245 (1992).
K	AT	3	Curry, K.A. et al., "Escherichia coli Expression and Processing of Human Interleukin-1 β Fused to Signal Peptides," <i>DNA Cell Biol.</i> 9:167-175, Mary Ann Liebert, Inc. (1990).

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Kirsten K. Patella

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K	AR	4	Datar, R.V. et al., "Process Economics of Animal Cell and Bacterial Fermentations: A Case Study Analysis of Tissue Plasminogen Activator," <i>Bio/Technology</i> 11:349-357, Nature Publishing Company (1993).
K	AS	4	Denèfle, P. et al., "Heterologous protein export in <i>Escherichia coli</i> : influence of bacterial signal peptides on the export of human interleukin 1 β ," <i>Gene</i> 85:499-510, Elsevier Science Publishers B.V. (Biomedical Division) (1989).
L	AT	4	Griffiths, J.B. and A. Electricwala, "Production of Tissue Plasminogen Activators from Animal Cells," <i>Adv. Biochem. Eng. Biotechnol.</i> 34:147-166, Springer-Verlag (1987).

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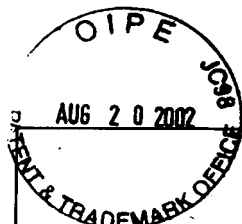
K	AR	<u>5</u>	Harris, T.J.R. et al., "Cloning of cDNA Coding for Human Tissue-type Plasminogen Activator and its Expression in <i>Escherichia coli</i> ," Mol. Biol. Med. 3:279-292, Academic Press Inc. (1986).
K	AS	<u>5</u>	Heussen, C. and E.B. Dowdle, "Electrophoretic Analysis of Plasminogen Activators in Polyacrylamide Gels Containing Sodium Dodecyl Sulfate and Copolymerized Substrates," Anal. Biochem. 102:196-202, Academic Press, Inc. (1980).
K	AT	<u>5</u>	Heussen, C. et al., "Purification of Human Tissue Plasminogen Activator with <i>Erythrina</i> Trypsin Inhibitor," J. Biol. Chem. 259:11635-11638, The American Society of Biological Chemists, Inc. (1984).

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Kristina Kotelova

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K	AR	6	Hu, C.-K. et al., "Tissue-Type Plasminogen Activator Domain-Deletion Mutant BM 06.022: Modular Stability, Inhibitor Binding, and Activation Cleavage," <i>Biochemistry</i> 33:11760-11766, American Chemical Society (1994).
K	AS	6	Kipriyanov, S.M. et al., "High level production of soluble single chain antibodies in small-scale <i>Escherichia coli</i> cultures," <i>J. Immunol. Methods</i> 200:69-77, Elsevier Science B.V. (1997).
K	AT	6	Ko, J.H. et al., "High-level Expression and Secretion of Streptokinase in <i>Escherichia coli</i> ," <i>Biotechnol. Lett.</i> 17:1019-1024, Chapman & Hall (1995).

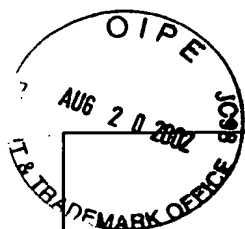
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Konstantina Katsura

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

K	AR	2	Kouzuma, Y. et al., "The Tissue-Type Plasminogen Activator Inhibitor ETIa from <i>Erythrina variegata</i> : Structural Basis for the Inhibitory Activity by Cloning, Expression, and Mutagenesis of the cDNA Encoding ETIa," <i>J. Biochem. (Tokyo)</i> 121:456-463, The Japanese Biochemical Society (1997).
K	AS	2	Lasters, I. et al., "Enzymatic properties of phage-displayed fragments of human plasminogen," <i>Eur. J. Biochem.</i> 244:946-952, Springer International on behalf of the Federation of European Biochemical Societies (1997).
K	AT	2	Lobel, L.I. et al., "Filamentous Phage Displaying the Extracellular Domain of the hLH/CG Receptor Bind hCG Specifically," <i>Endocrinology</i> 138:1232-1239, The Endocrine Society (1997).

EXAMINER

Konstantin K.

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7/17/02

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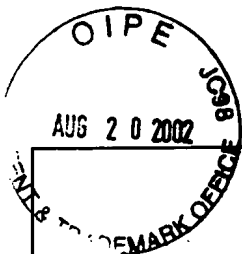
K	AR	8	Lubiniecki, A. et al., "Selected Strategies for Manufacture and Control of Recombinant Tissue Plasminogen Activator Prepared from Cell Cultures," In <i>Advances In Animal Cell Biology and Technology for Bioprocesses</i> , R.E. Spier et al. (ed.), Butterworth & Co., London, p. 442-451 (1989).
K	AS	8	Lucic, M.R. et al., "Secretion in <i>Escherichia coli</i> and phage-display of recombinant insulin-like growth factor binding protein-2," <i>J. Biotechnol.</i> 61:95-108, Elsevier Science B.V. (1998).
K	AT	8	Martin, U. et al., "Properties of a novel plasminogen activator (BM 06.022) produced in <i>Escherichia coli</i> ," <i>Z. Kardiol.</i> 79:167-170, Steinkopff Verlag Darmstadt (1990).

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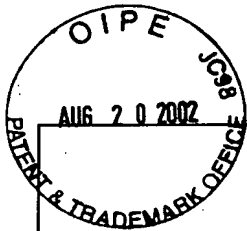
K	AR	2	Obukowicz, M.G. et al., "Secretion of Active Kringle-2-Serine Protease in <i>Escherichia coli</i> ," <i>Biochemistry</i> 29:9737-9745, American Chemical Society (1990).
K	AS	2	Parmley, S.F. and G.P. Smith, "Antibody-selectable filamentous fd phage vectors: affinity purification of target genes," <i>Gene</i> 73:305-318, Elsevier Science Publishers B.V. (1988).
K	AT	2	Pennica, D. et al., "Cloning and expression of human tissue-type plasminogen activator cDNA in <i>E. coli</i> ," <i>Nature</i> 301:214-221, Macmillan Journals Ltd. (1983).

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ll	AR	10	Rippmann, J.F. et al., "Procaryotic Expression of Single-Chain Variable-Fragment (scFv) Antibodies: Secretion in L-Form Cells of <i>Proteus mirabilis</i> Leads to Active Product and Overcomes the Limitations of Periplasmic Expression in <i>Escherichia coli</i> ," <i>Appl. Environ. Microbiol.</i> 64:4862-4869, American Society for Microbiology (1998).
ll	AS	10	Saito, Y. et al., "Production and Characterization of a Novel Tissue-Type Plasminogen Activator Derivative in <i>Escherichia coli</i> ," <i>Biotechnol. Prog.</i> 10:472-479, American Chemical Society and American Institute of Chemical Engineers (1994).
ll	AT	10	Sarmientos, P. et al., "Synthesis and Purification of Active Human Tissue Plasminogen Activator from <i>Escherichia coli</i> ," <i>Bio/Technology</i> 7:495-501, Nature Publishing Company (1989).

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	AL						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

u	AR	11	Scherrer, S. et al., "Periplasmic aggregation limits the proteolytic maturation of the <i>Escherichia coli</i> Penicillin G amidase precursor polypeptide," Appl. Microbiol. Biotechnol. 42:85-91, Springer-Verlag (1994).
u	AS	11	Soeda, S. et al., "Rapid and High-Yield Purification of Porcine Heart Tissue-Type Plasminogen Activator by Heparin-Sepharose Chromatography," Life Sci. 39:1317-1324, Pergamon Journals Ltd. (1986).
u	AT	11	Szarka, S.J. et al., "Staphylokinase as a Plasminogen Activator Component in Recombinant Fusion Proteins," Appl. Environ. Microbiol. 65:506-513, American Society for Microbiology (February 1999).

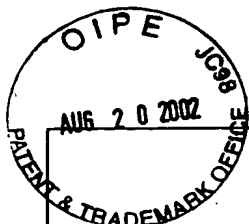
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K	AR	12	Waldenström, M. et al., "Synthesis and secretion of a fibrinolytically active tissue-type plasminogen activator variant in <i>Escherichia coli</i> ," <i>Gene</i> 99:243-248 (1991).
K	AS	12	Wan, E.W.-M., "TolAIII Co-overexpression Facilitates the Recovery of Periplasmic Recombinant Proteins into the Growth Medium of <i>Escherichia coli</i> ," <i>Protein Expr. Purif.</i> 14:13-22, Academic Press (1998).
K	AT	12	Zacharias, U. et al., "Characterization of Human Tissue-type Plasminogen Activator with Monoclonal Antibodies: Mapping of Epitopes and Binding Sites for Fibrin and Lysine," <i>Thromb. Haemost.</i> 67:88-94, F.K. Schattauer Verlagsgesellschaft mbH (1992).

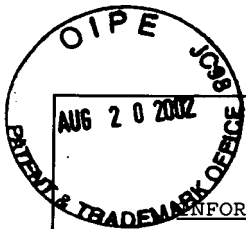
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	AP						Yes No

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h	AR	13	Andris-Widhopf, J., et al., "Methods for the generation of chicken monoclonal antibody fragments by phage display," J. Immunol. Meth. 242:159-181, Elsevier Science B.V. (August 2000).
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0652.2180001/JUK/Y-WAPPLICATION NO.
09/987,457APPLICANT
Manosroi *et al.*FILING DATE
November 14, 2001GROUP
1632

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
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APPLICANT
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	AN						Yes No
	AO						Yes No
	AP						Yes No

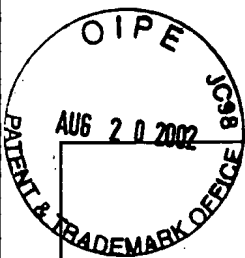
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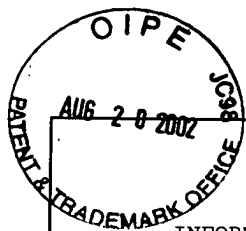
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	AL						Yes No
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<i>K</i>	AS	<u>17</u>	Dialog File 351, Accession No. 13502244, Derwent WPI English language abstract for EP 1 048 732 A1 (Document AN1).
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AM						Yes No
	AN						Yes No
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